



**Network
Control
Center**

**STDN DAILY REPORT
FOR GMT DAYS
23, 24 AND 25 APRIL, 2001**

Part I. Operations

23 APRIL

A. SN Anomalies:

1. STGT/MULTIPLE Support

23/0253-0538Z

At approx. 0520Z, BRTS POCC reported that they did not receive tracking data from the last series of BRTS (6 events) that ran at STGT (SGLT-1/TDW SGLT-2/TDS, SGLT-3/171). Investigation showed that the tracking data message (TDM) path through the STGT low rate data switch had been disconnected. The path was reconnected and all 6 BRTS events were rerun with BRTS POCC reporting seeing good TDM'S. Further checking shows that the TDM path was inadvertently disconnected at 0253 and that tracking data for all users at STGT during this outage (0253-0537) would be impacted. TTR # 23851

TDS/TDW/171 8 Hours 9 Min. 4 Sec. Svc/Loss

2. TERRA Support

23/0830-0834Z

Late acquisition on the S-band service. RF was present at AOS. POCC requested CSC send a forward reacquisition GCMR, CSC sent the forward GCMR reacquisition and the event locked shortly afterwards. TTR # 23852

TDW SSA1F/R 0830-0855Z 2 Min.42 Sec. Svc/Data Loss
(Recov)

B. ISS Anomalies - None.

C. GN Anomalies:

1. SGS/T1 Line Anomaly

23/1015-10323Z

Heard noise on Voice lines, noted alarm on timeplex system and loss of socket connections for 4k and 256k (256 k dump was completed 10:14) At 10:14 Contacted carrier Telenor EIK Ground station who confirmed 10:20 that Norway communication lines were OK. Contacted Goddard Tech for further investigation, they confirmed lines up by 10:25 without any manual intervention. During post pass, Master managed to send files in third try at 10:22. We have not managed to get any information of what caused this communication problem, except that Telenor reached to test their part to be OK before lines were up again.
CDS ID # 18549

11M 0819-1018Z 4KB Svc/Data Loss (Non-Recov)

24 APRIL

A. SN Anomalies:

1. XTE Support

24/0400-0410Z

POCC reported not receiving real-time data. POCC reported it's an in-house problem but failed to give an explanation of the anomaly before going unmanned. TTR # 23853

TDW SSA1F/R 0400-0410Z 9 Min. 30 Sec. Svc/Data Loss (Recov)

B. ISS Anomalies - None.

C. GN Anomalies:

1. SGS/QST Support

24/0037-0100Z

At 00:37:37 PTP GUI for 4K showed loss of lock and stopped to update frames (received about 212? frames). During pass troubleshooting covered cal/reset of PSK demod #2, manual patching of bitsync output signal to route it around the digital matrix directly to the PTP card 3 input, check of bitsync #3, all tests without change of problem. Lock on demod and bitsync #3 were ok and signals looked fine. Disabled and enabled PTP module for 4k, but this did not improve situation. The PTP itself was taken down by automation during postpass. After pass the PTP was restarted and QST longloop showed normal lock and counts. Real-time 4k was not sent from PTP#1 to the project, but is recorded on Metrum #2 at SGS. CDS ID # 18551

11 METER 0029-0046Z 7 Min. 30 Sec. Svc/Data Loss (Recov)

2. AGS/WIRE Support

24/0341-0352Z

Pack #3 failed to respond to "Setup and Activate" command from TPCE (null response received). No Commands or Real-time data was processed. Two reboots were completed before manual control was established, near the end of the scheduled support. The data was played back from tape and sent manually, post pass. CDS ID # 18552

TOTS-1 0341-0352Z 11 Min. Svc/Data Loss (Recov)

3. SGS/LANDSAT-7 Support

24/1410-1411Z

At 14:10:12 the operator noticed loss of X-band (before scheduled X-band loss). Troubleshooting revealed that the antenna had lost X-band tracking signal, but weeks S-band signal provided still good S-band data. At 14:10:50 the operator forced program track and good x-band signal was achieved from 14:10:52. S-band autotrack was performed for 1 minute and the X-band autotrack was turned on again. X-band autotrack worked fine without problems. During the period when program track was

used the operator verified that the X-band track polarization was set to RHC. The usual workaround was performed before support, and we have no indication on why the antenna lost autotrack of the X-band. Only X-low were lost due the PN downlink on X-med between 14:09:44 and 14:11:17.

CDS ID # 18556

11 METER 1401-1415Z 41 Sec. Svc/Data Loss (Non-Recov)

4. AGS/EO-1 Support

24/2222-2235Z

The 11M antenna failed to move in azimuth after the antenna positioned to the IP. The operator was able to overcome the problem and get the antenna onto the target by selecting manual position. The antenna continued to experience problems staying on the target during the early portion of the S-band and X-band track. Shortly after the X-band was enabled AGS noted problem with the antenna tracking and switch back to S-band auto track for the remainder of the support. EO-1 informed AGS they were not declaring a data loss because they already dumped the data 4 time prior to our support and confirmed that all of the data was recovered during the last two contacts. CDS ID # 18562

11-METER POCC Declared no data loss dumped on a previous pass.

25 APRIL

A. SN Anomalies:

1. NCC Equipment Failure

25/1944-2002Z

NCC had a CCS in-house equipment failure that resulted in no ODMs or GCMR capability for a total of 1 hours 40 minutes and 24 seconds service loss. TTR # 23854

B. ISS Anomalies: - None.

C. GN Anomalies:

1. PF1/QUIKSCAT Support

25/0155-0200Z

During setup, the PTP crashed and had to be rebooted. The reboot of the PTP was not complete until after AOS and after the 2M downlink had already started. All of the 262k data was received and recorded, but the station was not able to establish lock on the 4k data. CDS ID # 18567

11 METER 0155-0208Z 4 Min. 15 Sec. Svc/Data Loss (Recov)

2. PF1/EO-1 Support

25/0312-0324Z

The automation software was not able to communicate with the Ampex tape drives during the support and so none of the X-band data was recorded to tape. As a back-up, the X-band data was also recorded on the RAID, but the ground station operator forgot to copy over the X-band data before the next EO-1 support and the data was overwritten. CDS ID # 18563

11 METER 0312-0324Z 8 Min. 46 Sec. Svc/Data Loss
(Non-Recov)

3. WGS/ QUIKSCAT Support

25/2354-0008Z

At the appropriate time the schedule was sent to all associated equipment, including the SCC the SCC was upgraded, allowing the operator to have control of the SCC if needed. The following events were observed. First, the SCC did not accept the schedule and had the following messages on the status window: Control access revoked from remote user. The system messages had: Received bad authentication responses 7. With these messages, the SCC did not accept the schedule. Took manual control of the SCC and loaded the schedule. During this time, the S/C was already above the horizon. When the SCC finally put the antenna on the S/C, all science data had already been dumped. This data is recoverable from another station. Also found that we were having a hard time auto tracking the S/C. Checked the ephemeris

on the SCC console and found that it was 17 days old. Somehow the ephemeris from the previous track had been dumped off the system and it retained an old ephemeris! Software version 3.1.7 was loaded into the system today. CDS ID # 18569

11 METER 2354-0008Z 14 Min. Svc/Data Loss (Recov)

Part II . Testing Anomalies

A. SN Test - None.

B. GN Test - None.

Part III. Equipment Status Changes - None.

\$ = Changed ETRO

** = New Items

Part IV. Scheduled Activities:

Aqua EGS6/NCC Ops Scheduling MRTT Test 26/1300-1500Z

TITAN-IV/B34 P-3 TARMAC Test 26/1530-1800Z

ENGINEERING TEST with JASON-1 POCC and PKRR
26/1600-1800Z

NAB K-Band Demonstration 26/1700-2218Z

2001 North Pole Expedition Test 26/1800-29/2330Z

AGS/SGS/WGS TERRA GSIP PARALLEL OPERATIONS
(PHASE III) 26/2239-2249Z

Part V. Launch Forecast Changes :

1 .) H1435LS (SEALAUNCH/XM-1R) NET 09 MAY 2001
T-0 = 2210Z